IOFFE, A.I., starshiy nauchn.sotrudnik; TSETLIE, A.M., otv.red.

[Antomatic voltage regulators for generators of central electric power plants of lumbering enterprises] Avtomaticheskoe regulirovanie napriasheniis generatorov na tsentral'nykh elektricheskikh stantsiiakh lesosagotovitel'nykh predpriiatii. TSentr. nauchnostantsiiakh lesosagotovitel'nykh predpriiatii. TSentr. nauchnostantsiiakh lesosagotovitel'nykh predpriiatii. 1958. 59 p. issl. in-t mekhanisatsii i energ. lesnoi promyshl., 1958. 59 p. (MIRA 12:2)

1. Sibullikhe (for loffe).

(Voltage regulators) (Electric power plants -- Equipment and supplies)

1 ---

30307

5/115/61/000/008/002/009

E194/E119

10-1500

Ioffe, A.I

Problems in the design of instruments with elastic

AUTHOR: TITLE:

sensitive elements

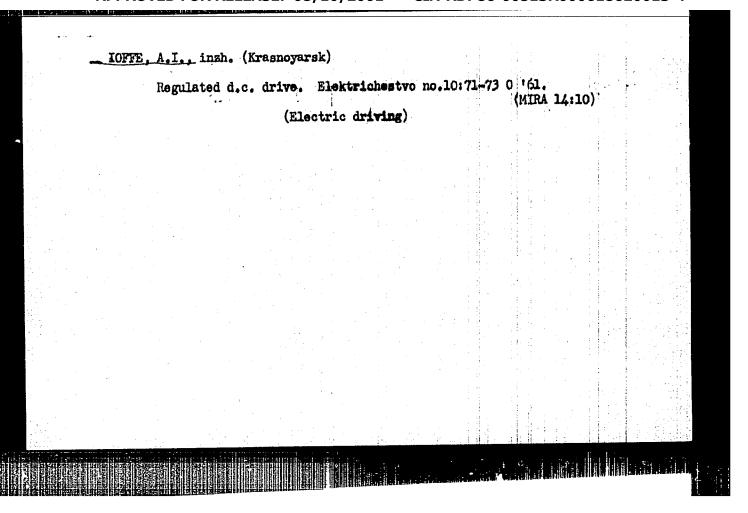
PERIODICAL: Izmeritel'naya tekhnika, no.8, 1961,

The present work deals with instrument design without systematic error because accurate and not approximate relationships are used. It also considers improvements in overall accuracy resulting from the use of a sensitive element with non-linear characteristics. The output signal of the equipment is a function of the pressure applied to the pick-up but the pressure sensitive element of the pick-up itself has a pressure response characteristic and it is first shown that the shape of this characteristic To this end governs the accuracy of the instrument as a whole. error expressions are derived for sensitive elements with linear, logarithmic and exponential characteristics. When this has been done, then sensitive elements which give the minimum error in particular cases can be selected. A numerical example is given for an instrument measuring the Mach number, M, by an aerometric Card 1/2

CIA-RDP86-00513R000618620013-4" APPROVED FOR RELEASE: 08/10/2001

Problems in the design of instruments... S/115/61/000/008/002/009

method. M can be expressed as a function of the ratio of the static and dynamic pressures, e.g. graphically. Three methods of finding M are then possible: 1) by determining the static and dynamic pressures and finding their ratio (linear method); 2) by measuring the logarithms of the pressures and working from the difference; 3) by using an exponential equivalent to the relationship between M and the static and dynamic pressures and determining convenient and appropriate functions of the static and dynamic pressures. Error equations are given for these cases and it is shown that the error in determining M depends upon the pressure law transmitted by the pick-up. It is shown that atelow pressures the error of M is greater in linear pick-ups than logarithmic. It is also concluded that in designing instruments to measure M over a wide range of static and dynamic pressures the pick-up should have logarithmic characteristics whereas for low altitudes (high dynamic and static pressures) the linear elements should be linear. The suitability of exponential pick-up characteristics must be determined separately in each particular case. There are 5 figures, 1 table and 3 Soviet-bloc references. Card 2/2



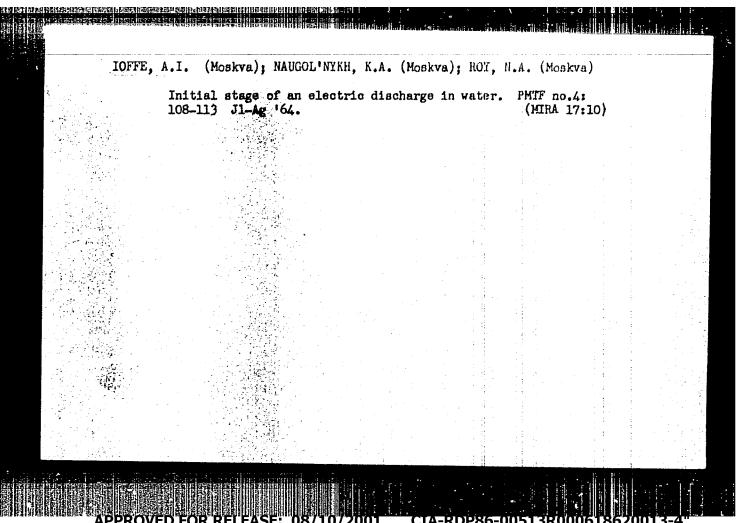
S/119/6#/000/003/009/d1d D201/D308 Ioffe, A.I. and Cherkasov, Ye.P. AUTHORS: A semiconductor transducer for conventing a continuously varying voltage into an on-off electric sig-TITLE: nal PERIODICAL: Priborostroyeniye, no. 3, 1963, A short description of a contactless phase-sensitive transistor circuit which transforms an a.c. voltage tuto an en-off d.c. signal. The circuit consists of a directly coupled complement-ary pair of transistors with heavy positive feedback to the base of the second (collector of the first) transistor, the latter being in grounded collector connection. Since the supply of the second transistor is through a diode, from a source having the same frequency as the input signal, the arrangement is phase-sensitive, the heavy positive feedback producing an on-off operation of the pair. are 3 figures. Card 1/1

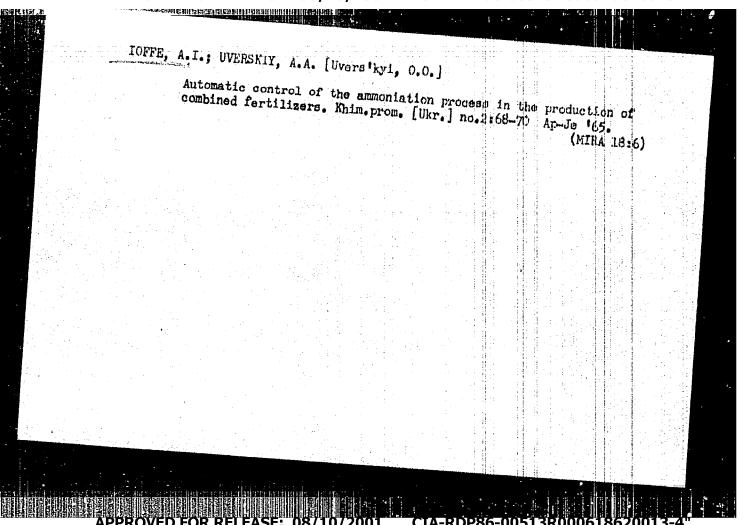
Basic requirements for the drive of the feeding mechanism of frame sees. Trudy VSNIPILesdrev no.7:3-16 '63.

1. Nachal nik laboratorii avtomatizatsii Vostochnosihirekogo nauchho-issledovatel skogo i proyektnogo instituta lesnoy i derevoobrabatyvayushchey promyshlennosti.

MINAL COL 5/0207/64/000/004/0108/0113 ACCESSION NR: AP4044725 AUTHORS: Ioffe, A. I. (Moscow); Naugolinyakh, K. A. (Moscow); Roy, N. A. (Moscow) TITIE: On the initial stage of an electric discharge in water SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 4, 1964, 103-113 TOPIC TAGS: electric discharge, ionized gas, heat transfer, dissociated gas, discharge column, gas pressure, plasma conductivity ARSTRACT: The process of an electric discharge column spreading in water was discussed analytically for small spreading rates and zero magnetic forces. A theoretical model is constructed on the basis of small dR/dt (R-column radius) assumption which leads to linear acoustic approximations that satisfy Laplace's equation $\Delta \phi = 0$ and the linearized Euler momentum equation. This in turn leads to an expression for the pressure around the discharge column given by Dissociative heat transfer in a thin layer around дφ the discharge column is considered to be the primary source of energy loss, and for a planar geometry and constant mass flow rate the temperature distribution

transition layer to be or column is determined using ionization expression for adiabatic coefficient and 500 to 2000 at an expression is derived $u^4 \left(\ln \frac{2c}{u} - \frac{1}{2} \right) = \frac{N}{2}$	the order of 10^{-5} cm. The temperate conduction—diffusion equation with temperature estimates not exceeding is determined for water in the 9000 a range ($Y = 1.21$), and from an energy for column expansion rate u given by a conducted using experimentally determined using experimentally determined using experimentally determined is cussions. The fiscussions of the conduction of the conduction of the discharge.	15000C. A mean 16000C temperature rgy balance equation y discharge potential rmined column radii.	
Braginskiy for helpful of ASSOCIATION: none	alculated using experiments of the discharge. The photographing the discharge. 16 f. liscussions. Orig. art. has: 16 f.	ENGL:	00
SUBMITTED: 09Jan64 SUB CODE: ME,GP	NO REF: SOV: 005	OTHER:	005
: Card 2/2			

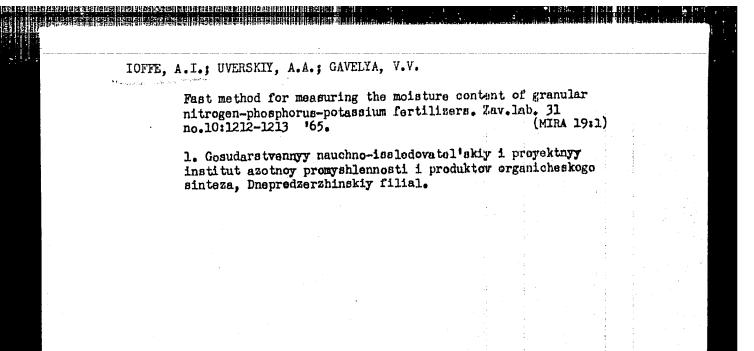




IOFFE, A.I.; SLINKOV, V.M., nauchnyy sotrudnik; KUNCS, Ya.A., nauchnyy sotrudnik

System of the automatic control of log frame saws. Trudy VSNIPILesdrev no.8:3-13 63. (MIRA 18:11)

l. Nachal'nik laboratorii elektrotekhniki i avtomatiki Vostochno-Sibirskogo nauchno-issledovatel'skogo i proyektnogo instituta lesnoy i derevoobrabatyvayushchey promyshlennosti (for Ioffe). 2. Iaborariya elektro-tekhniki i avtomatiki Vostochno-Sibirskogo nauchno-issledovatel'skogo i proyektnogo instituta lesnoy i derevoobrabatyvayushchey promyshlennosti (for Slinkov, Kungs).



ACC NR: AP7003254

(N)

SOURCE CODE: UR/0207/66/000/006/0069/0072

AUTHOR: Toffe, A. I. (Moscow)

ORG: Institute of Acoustics, AN SSSR (Akusticheskiy in-t AN SSSR)

TITLE: A contribution to the theory of the initial stage of electrical discharge in water

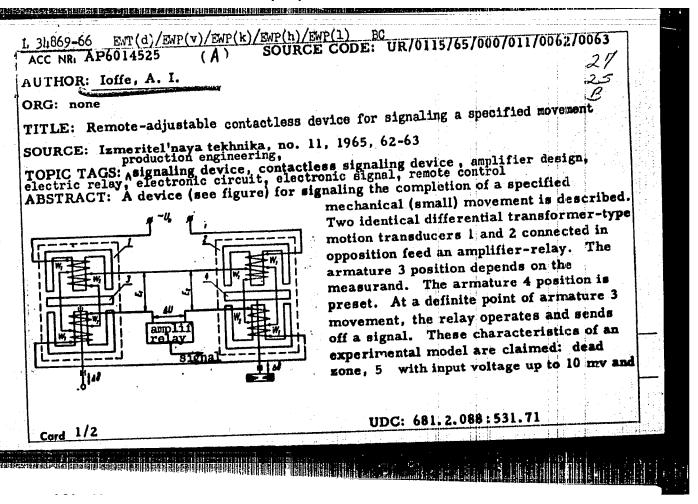
SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 6, 1966, 69-72

TOPIC TAGS: electric discharge, electric circuit, circuit design

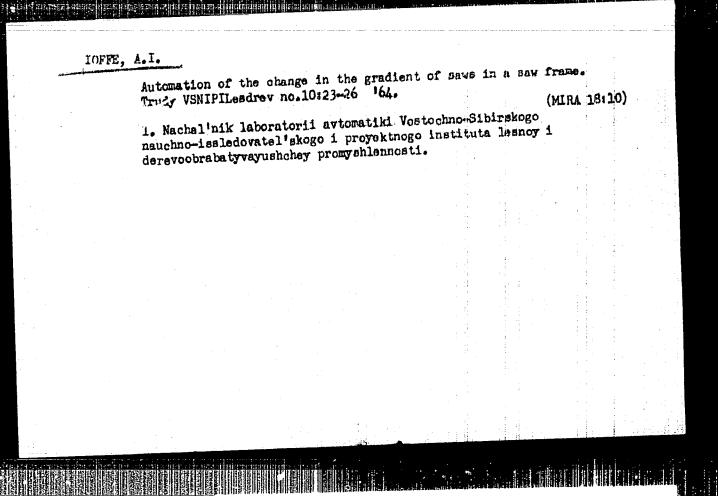
ABSTRACT: Experiments on electrical discharge in water demonstrate that such variables as electrical current in the circuit, voltage, channel radius, discharge radius, pressure in the compression pulse, as well as the change in these variables in time may apparently be defined in terms of four given parameters, i.e., initial voltage on capacitor, V₀, inductance, L, of the discharge loop, capacitance, C, of charging capacitor, and length, 1, of interelectrode space. In order to describe behavior of discharge in time, an attempt is made to construct a system of equations which must also include variables characterizing the electrical discharge circuit and those referring to the discharge channel formed by breakthrough. Solution of the system should show the time dependence of the variables which are of interest. The author considers the electrical discharge circuit to be an ordinary oscillatory loop with given L and C, but with loop resistance entirely determined by the discharge

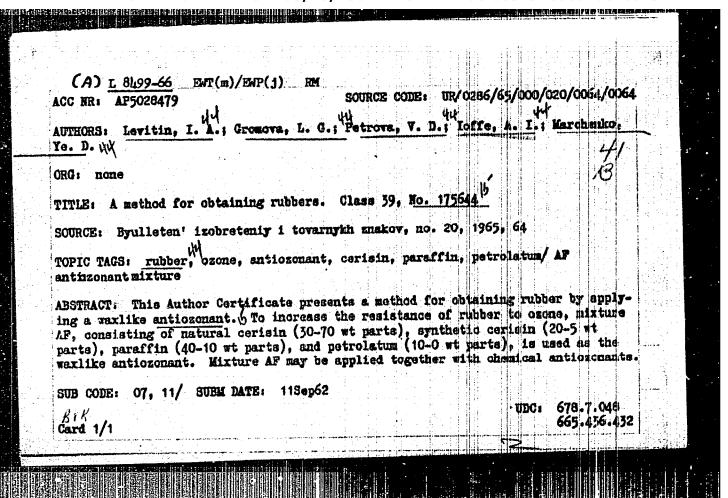
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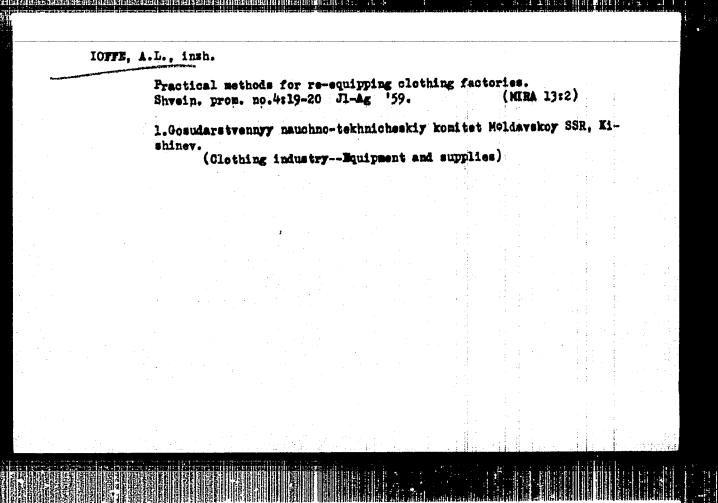
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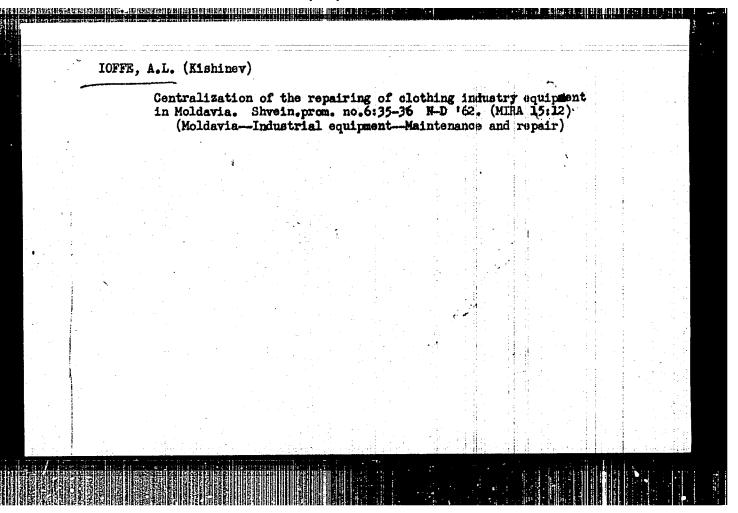


emperatures 0-60 or 0-60C; error mplifier-relay cir figures.	due to ± 5	% variation	of volta	ge and fi Davider	gap; t equen iko."	cy, 2 Orig	ature " . ' art.	error The has:	, 10 m
control device		TE: none							

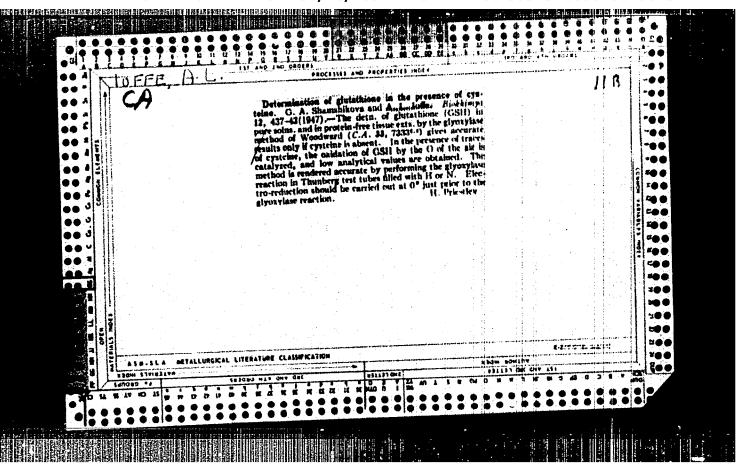








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IOFFE, A. L.

USSR/Medicine - Gluthathione

Medicine - Kidney

Jan/Feb 1948

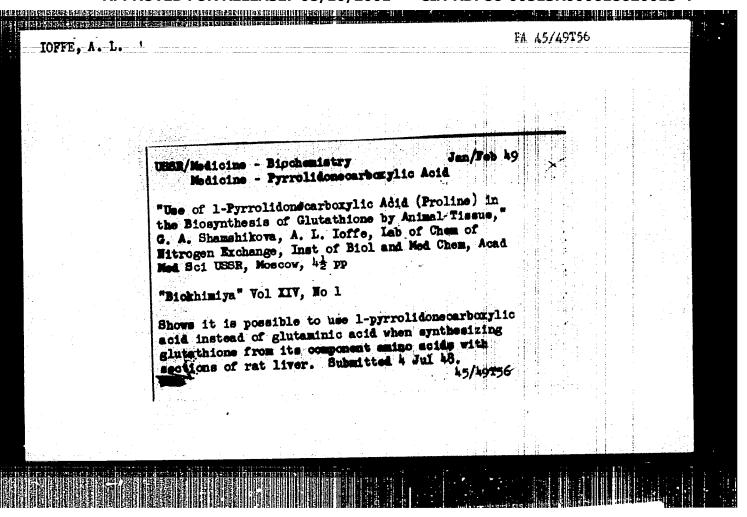
"Biosynthesis of Glutathione in Surviving Animal Tissues," A. Te. Braunchteyn, G. A. Shamshikova, A. L. Oiffe, Lab of Chem of Hitrogen Conversion, Inst of Hol and Had Chem, Acad Med Sci USSR, Moscov, 6 pp

"Biokhim" Vol IIII, No 1

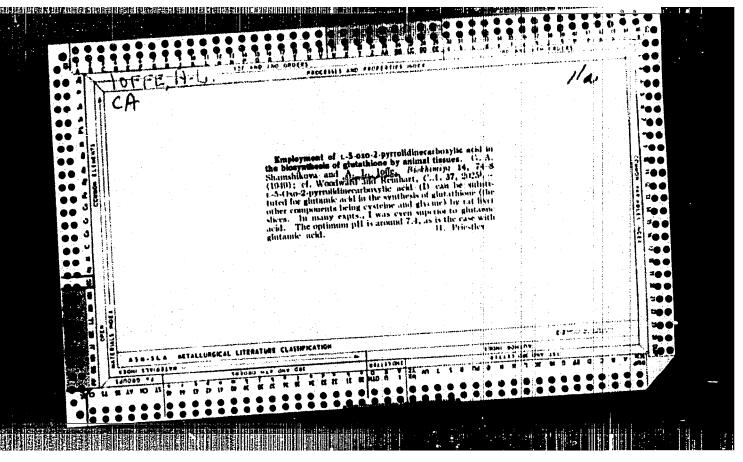
Show that surviving pieces of mouse kidney in vitro form glutathione very rapidly under serobic conditions. After 2-hr period i g of tissue will produce from 1 to 5 mg of glutathione.

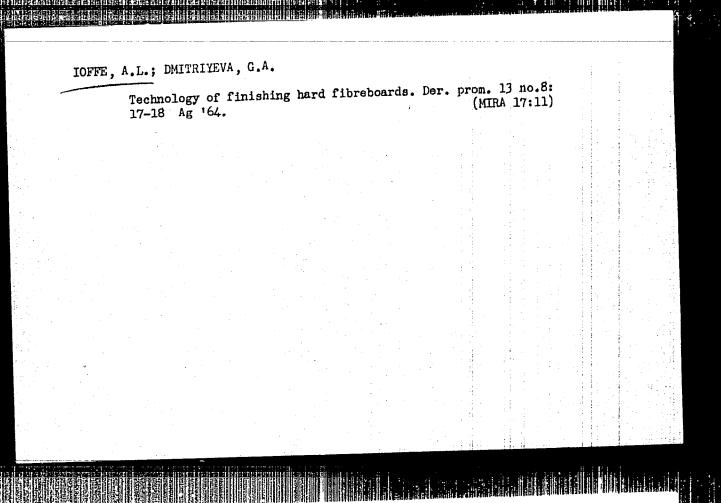
Submitted 20 Sep 1947

PA 64.761



"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618620013-4





Industrial rural construction using new boards on a base of plant materials. Shor. inform. soob. WHINSM no.14:7-14 '62. (MIRA 18:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut novykh stroitell-nykh materialov Akademii stroitel'stva i arkhitektury SSSR (for Ioffe). 2. Nauchno-issledovatel'skiy institut sel'skogo stroitel'stva (for Zezin).

IOFFE, A.L.; DMITRIYEVA, G.A.

Coating hard fiberboard with paper plastic. Der. prom. 14 no.1:7-8
Ja '65.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut novykh
stroitel'nykh materialov.

IOFFE, A.L.; DMITRIYEVA, G.A.

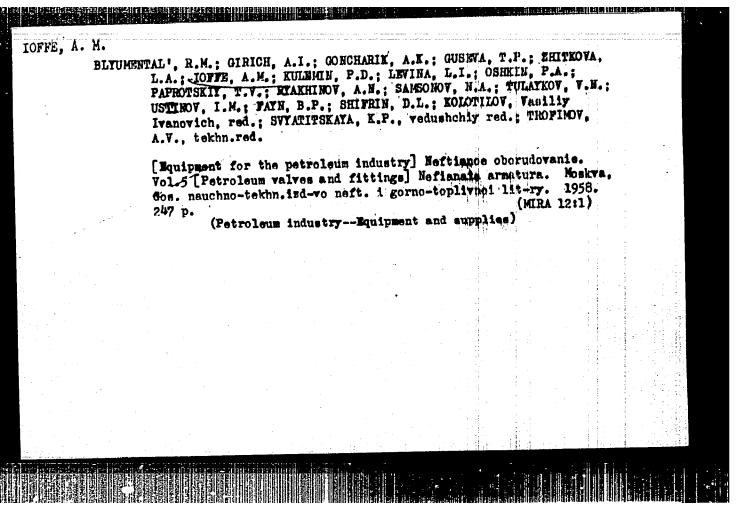
Reducing the loss of fiber in the manufacture of fiberboards. Der. prom. 14 no.4:26 Ap '65. (MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut novykh stroitel'nykh materialov.

OTLIVANCHIK, A.N.; IOFFE, A.L.; DMITRIYEVA, G.A.

Pireproofing of wood fiberboards. Der. prom. 15 no.1:8-10

Ja '66. (MIRA 19:1)



KOZHEVNIKOV, S.N.; PRAZDNIKOV, A.V.; IOFFE, A.M.; GLIKIN, M.P.

Stand for the testing and installation of a pilgrim mill feed mechanism. Metallurg 9 no.3:29-30 Mr '64. (MIRA 17:3)

1. Instituf chernoy metallurgii i zavod im. K.Libknekhta.

ACC NR: AT7000712

SOURCE CODE: UR/0000/66/000/000/0045/0050

AUTHOR: Kozhevnikov, S. N. (Corresponding member AN UkrSSR); Prazdnikov, A. V. (Candidate of technical sciences); Ioffe, A. M. (Candidate of technical sciences); Fabrika, L. P. (Engineer)

ORG: None

TITLE: Use of electronic simulation for studying the hydropneumatic system of the feed mechanism on a pilger mill

SOURCE: Ukraine. Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya. Gidroprivod i gidropnevmoavtomatika (Hydraulic drive and hydropneumatic automation), no. 2. Kiev, Izd-vo Tekhnika, 1966, 45-50

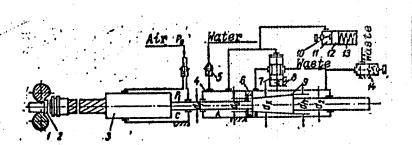
TOPIC TAGS: rolling mill, pneumatic servomechanism, hydraulic device, computer application, analog computer

ABSTRACT: Electric simulation is used for studying the operation of the feed mechanism on a pilger mill. This method consists of using an analog computer for solving the equation of motion of the moving masses in the mechanism. Shown in the figure is a feed mechanism for production of seamless tubes 219-325 mm in diameter. The unit contains a hydraulic brake consisting of housing 4 with diaphragm 6. Inside the housing is tapered plunger 9 with a rod rigidly connected to plunger 3. The entire braking system is filled with water which is fed in at a pressure of 58.9·10⁴ N/m².

Card 1/3

ACC NR: AT7000712

Rolls 1 move sleeve with mandrel 2 as well as plungers 9 and 3 from the extreme left-hand position toward the right. During this process, water from the main line flows through check valve 5 into cavities A and B. After completion of rolling, the moving masses are braked by com-



pressed air in chamber C and begin to move toward the left. On the return path, water from cavity B flows freely through valve 7 into the waste line until the end of the tapered plunger covers the diaphragm. At this point, the fluid pressure in chamber A rises and valve 7 cuts off the waste line. This begins braking of the moving masses. The fluid in chamber A is forced through the annulus between the tapered plunger and the diaphragm into chamber B and through pressure valve 14 into the waste line. Valve 14 is used for regulating braking conditions. The length of the braking path is adjusted by using screw 10 for setting piston 12 in measuring unit 11. When plunger 9 enters diaphragm 6, piston 12 is moved by fluid pressure to the extreme right-hand position. This action delivers a fixed quantity of fluid to

Card 2/3

ACC NR: AT7000712

the cylinder of measuring unit 11 without resistance, so that there is no braking force on a given section of the braking path. When piston 12 stops in the extreme right-hand position, braking force develops in the hydraulic braking system. After completion of braking at the beginning of the rolling process, spring 13 returns piston 12 to the original position while spring 8 returns slide valve 7 to the neutral position. Electronic simulation was used for studying motion of the masses in this mechanism as a function of their magnitude, the working capacity of the feed mechanism was determined and operation of the hydraulic brake was checked with variations in parameters. The program included simulation of both the acceleration and braking of the moving masses. The resultant data show that an increase in air pressure considerably reduces the operating cycle of the mechanism accompanied by a sharp increase in deceleration of the moving masses past the permissible value. An increase in the gap between the tapered plunger and the diaphragm to more than 0.4 mm results in an excessive final velocity of the moving masses during braking. Repair measures are called for when the clearance reaches this limiting value. The given data agree with those of dynamic computation. Orig. art. has: 5 figures.

SUB CODE: 13/ SUBM DATE: 29Jun66

Card 3/3

KOZHEVNIKOV, S.N.; PRAZDNIKOV, A.V.; IOFFE, A.M.

New trends in the creation of high-speed feeding devices for pilgrim mills. Metallurg 9 no.9:21-23 5 '64. (MIRA 17:10)

IOFFE, Anatoliy Mikhaylovich; MORDTOVA, A., red.

[Notes of a doctor-hypnotist] Zapiski vracha-gipnotizera.

(Notes of kemerovskoe knizhnoe izd-vo, 1965. 60 p.

(MIRA 18:10)

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	species. The accumulation of active protistocidal agents in the fungus mass of a Fusarium culture depends on the compn of the nutrient medium, the temp, and general conditions under which the culture is grown.		genera fungi. States that examn of the culture genera fungi. States that examn of the culture media of Alternaria, Penicillium, and Aspergillus fungi, revealed a protistocidal effect on Paramae-cium cadatum. Alc extract of the fungus mass of Alternaria, Penicillium, Mucor and Fusarium exert a protistocidal effect on paramaecia. An especially potent	"The Protistocidal Properties of Certain Mold Fungi," B. S. Drabkin, A. S. Ioffe, Chkelov Med Inst "Mikrobiol Vol 21, No 6, pp 700-704	WESR/Medicine - Antibiotics Nov/Dec 52	
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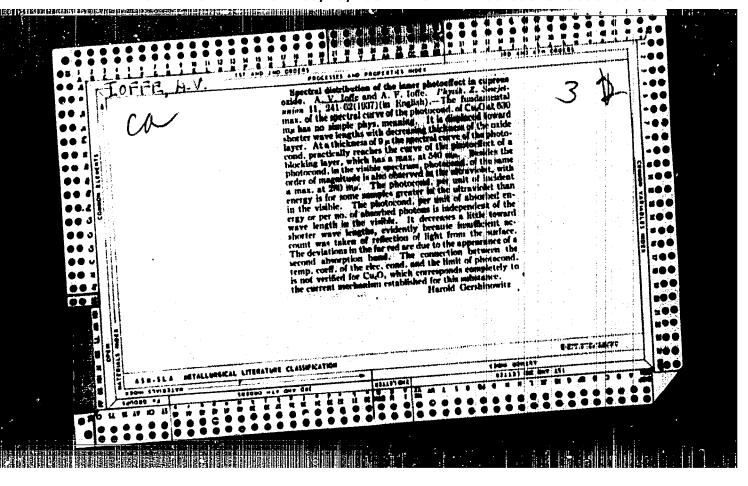
AUTHOR: Infe. A. S.

TITLE: Features of a process for producing tools made of with powder containing diamond dust;

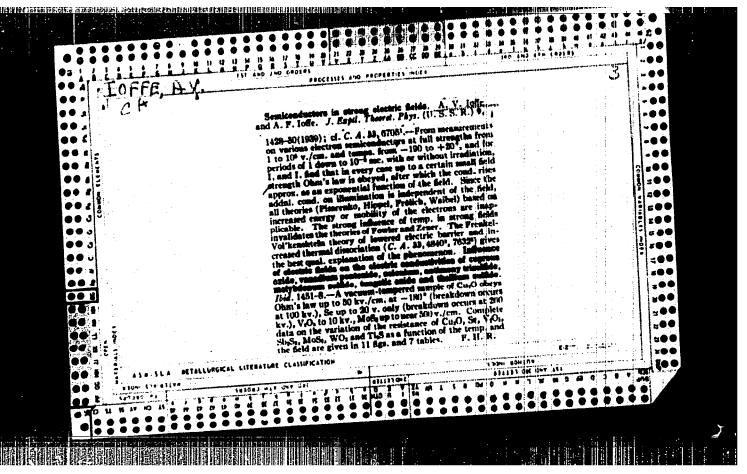
PERIODICAL: Referativny shurns, Linknins, Mc. 2, 1965, 572 Shetreot 2MAO (Tr. YI Koordina's, Sovembohaning or shiftowis: poliroves stella i drugink khrupith materialov, 1960. Saratov, 1961, 176-160).

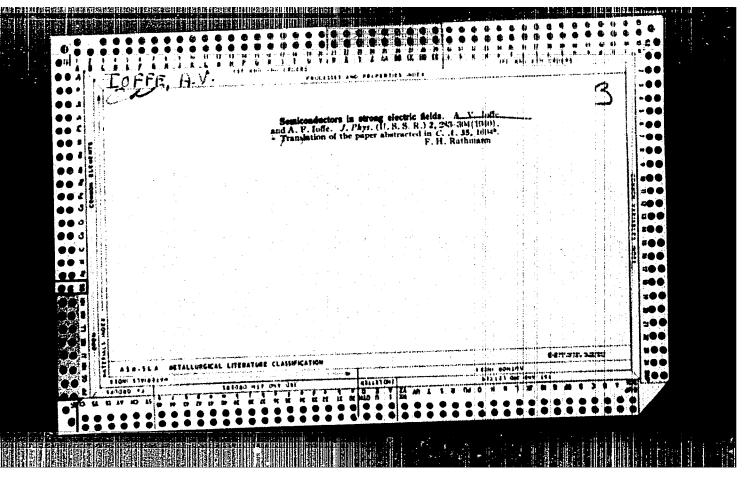
TEXT: The process employed at the Fetrodvortsovskiy chastroy saved (Petrodvorets Watch and Clock Works) for manufacturing tools made of metal powder containing diamond dusy is described; the types of thell are 30-140 mm diam. slotted disks Egrinding disks of diameters up to 140 mm, prepision-grinding, tool-grinding and grinding wheels, cintered needles for making spherical depressions in ruby stones; diamond dies with apertures of 0.06-0.3 mm (accuracy 30) for drawing wire, and diamondoutting tools. [Abstracter's note Complete translation.]

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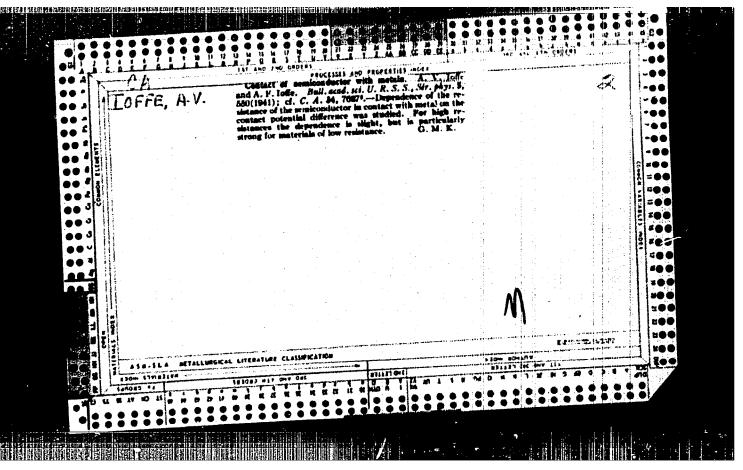


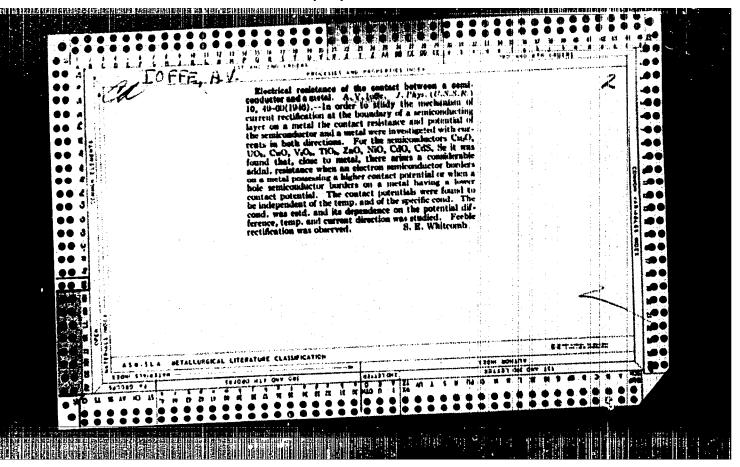


"Resistance of a Semi-Conductor on the Boundary with a Merital," Dok. AN 27, No. 6, 1940.

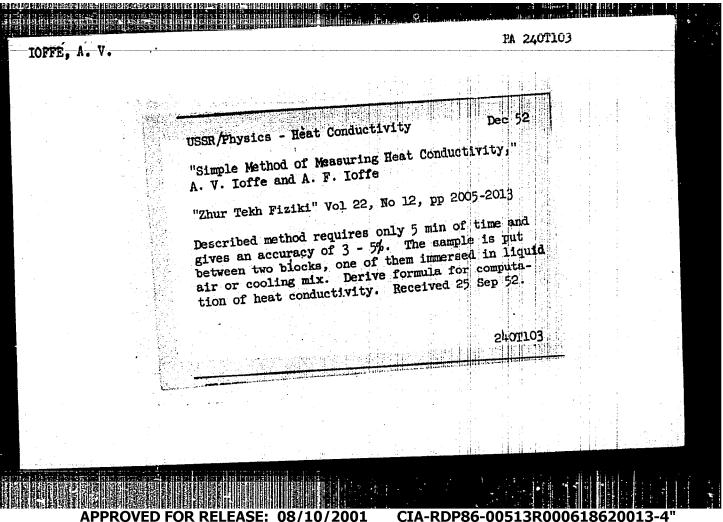
Physico-Tech. Inst. AS, Leningrad.

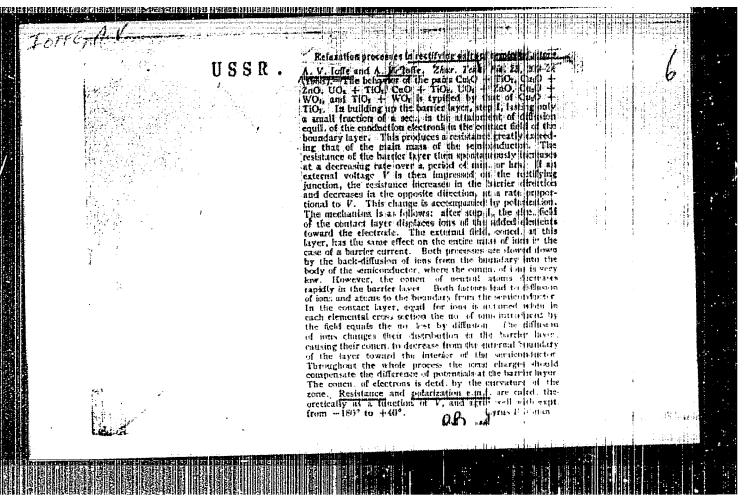
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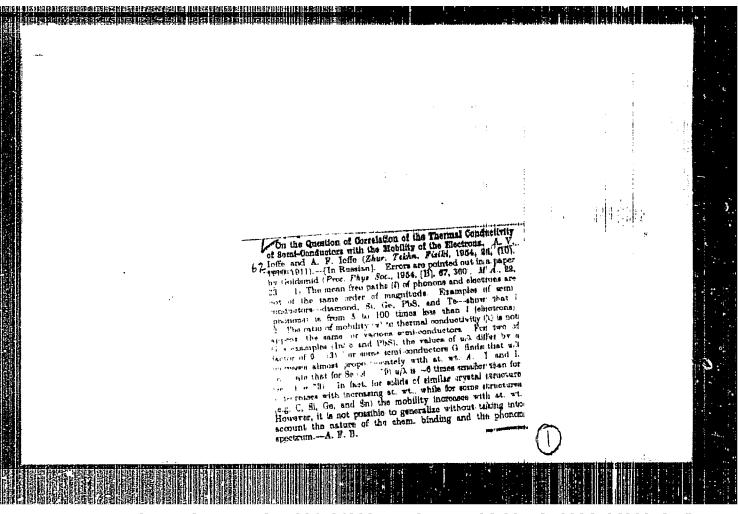




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		uses/Physics (Contd.) semiconductors and presence potentials between the two that much work still remain in capacity of boundary lay pairs, and current dynamics to frequency, temperature, mitted 10 Aug 48.	Inst, Acad Sci UMER, 13 pp "Zhur Tein Fis" Vol IVIII, No 12 "Examined that a high degree of rectification on be obtained by placing one semiconductor close to another without benefit of heat treat to varying conductive mechanisms in touching to varying conductive mechanisms in touching to varying conductive mechanisms in touching	Rectification at the Boundary of
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		moe of different we bedies. Toffe mins in study of layers in rectify dos and their rel re, and voltage.	grad Physicotes of rectificati semiconductor fit of heat to ange on touching gas in touching	
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IOFFE, A. V. USSR/Physics - Heat conductivity Card 1/1 Pub. 22 - 17/48 Authors Toffe, A. V. and Ioffe, A. F., Academician Title Some unifromities in changes of the specific heat conductivity of heat semi-conductors Periodical Dok. AN SSSR 97/5, 821 - 822, August 11, 1954 Experiments intended to prove that specific healt conductivity decreases Abstract as atomic weight increases are described. The experiments were conducted with the help of a special device which permits specific conductivities to be evaluated with a very small degree of error. Two references (1952). Tables; graphs. Institution Submitted

Iotte, Au

USSR/Physics - Conductivity

Card 1/1 Pub. 22 - 16/47

: Ioffe, A. V., and Ioffe, A. F., Academician Authors

Title Effect of admixtures on the heat conductivity of semi-adductors

Periodical: Dok. AN SSSR 98/5, 757-759, Oct 11, 1954

Abstract Experiments to evaluate the effect of foreign admixtures on the heat donductivity of semi-conductors are described. The various law governing the heat conductivity magnitudes of semi-conductors are cited. Measurement of the specific-heat conductivity of solid solutions of humarius semi-conflictors showed that foreign admixtures should be evaluated not only by the number of introduced atoms but also by the extent of distortions in the lattice

resulted by each of the side atoms. The measured heat-conductivity values of solid solutions with large admixtures are given in tables. Three USSR

references (1952 and 1954). Tables; graphs.

Institution: Academy of Sciences USSR, Laboratory of Semi-Conductors

Submitted July 26, 1954

USSR/Physics - Heat conductivities

Author

: Ioffe, A. V.; Sinani, S. S.

Title

Brief communication. Heat conductivity of oxides of elements in the second

group of the periodic system

Periodical

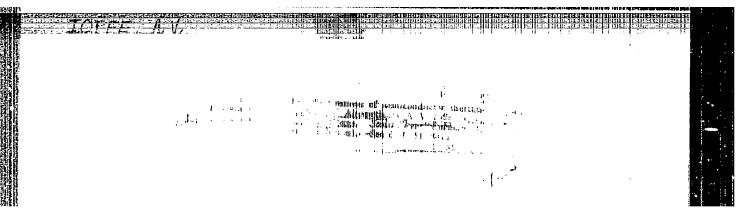
Zhur. tekh. fiz., 25, No 9 (September), 1955, 1659-1661

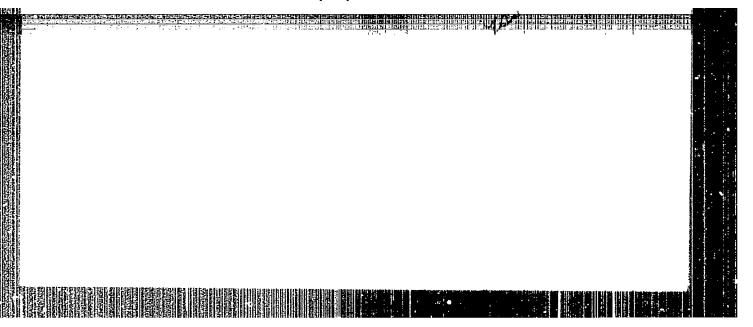
Abstract

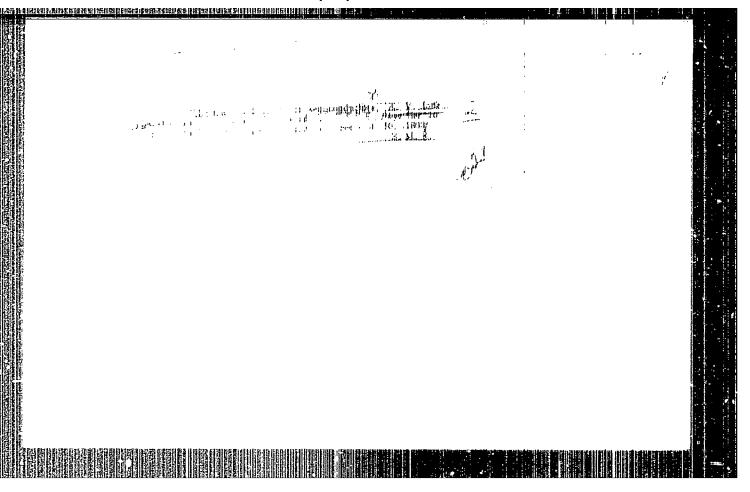
In an earlier work (A. V. Ioffe, A. F. Ioffe, DAN SSR, X, No 5, 7, 821, 1954) it was shown for elements of the 4th group and for alkali-halide salts that their specific heat conductivity decreases with increase in atomic weight and that furthermore for identical atomic weight the heat conductivity of atomic lattices exceeds in order of magnitude the heat conductivity of ionic compounds. On the suggestion of A. F. Toffe the present writers undertook the investigations described in this note with the purpose of verifying the applicability of the above conclusions to other substances, especially to clarify whether a comparatively weak difference in the character of the crystallochemical bonds is reflected along with the dependence upon atomic weight varying in the limits from 9 (Be) to 200(Hg). For study the authors choose the oxides BeO, MgO, CaO, ZnO, SrO, CdO, BaO, HgO. Their measurements confirm the systematic lowering of heat conductivity with increase in atomic weight for all the oxides except Be() and MgO (which have structure of porous powder). They thank G. N. Gordyakova for preparation of the specimens.

Submitted

June 14, 1955







USSR/Electricity - Semiconductors, G-3

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 35028

Author: Ioffe, A. V., Mife, A. F.

Institution: Institute of Semiconductors, Academy of Sciences USSR, Leningrad

Title: Heat Conduction of Semiconductors

Original.

Periodical: Izv. AN SSSR, ser. fiz., 1956, 20, No 1, 65-75

Abstract: Review of existing concepts on the mechanism of heat conduction of

semiconductors and experimental data on the measurement of the heat

conduction at room temperature.

Card 1/1

TOFFE, A.V.

USSR/ Laboratory Equipment. Apparatuses, Their Theory, Construction and Application.

Abs Jour: Referat. Zhur.-Khimiya, No. 8, 1957, 27361.

Author: A.F. Ioffe, S.V. Ayropetyants, A.V. Ioffe,

N.V. Kolomoyets, L.S. Stil bans.

Academy of Sciences of USSR. Inst.

Efficiency Increase of Semiconductor Thermo-Title

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Orig Pub: Dokl. AN SSSR, 1956, 106, No. 6, 981.

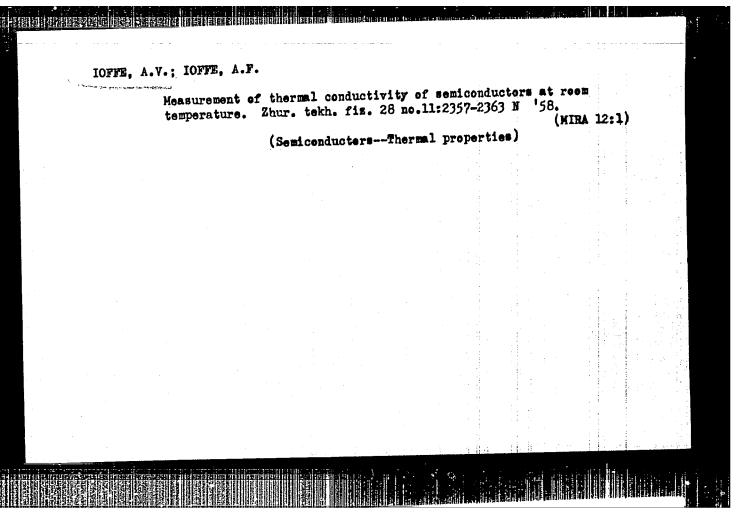
Abstract: With a view to increase the ratio of the mobility

of electricity carriers to the heat conductivity of the lattice, it is proposed to introduce thermocouples of substances possessing approximately the same lattice constant into the first named

crystalline lattice.

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I OFFE, A.V.

S/181/60/002/05/01/041 B008/B058

AUTHORS:

Ioffe, A. V., Ioffe, A. F.

TITLE:

Thermal Conductivity of Solid Solutions of Semiconductors

PERIODICAL:

Fizika tverdogo tela, 1960, Vol. 2, No. 5, pp. 781-792

TEXT: The paper under review deals with the clarification of the rules governing the thermal conductivity of solid solutions of semiconductors on the basis of comprehensive experiments, and especially with phonon scattering from impurities. Ye. D. Devyatkova investigated the temperature dependence of the thermal conductivity of solid solutions of (PbTe+PbSe). The discovered that the thermal conductivity of this substance decreased with temperature, and that all the less the higher the concentration of the impurity. The authors had already measured the concentration dependence of the thermal conductivity of selenides and tellurides of lead, mercury, bismuth, antimony, and tin. They express their gratitude to T. S. Stavitbismuth, antimony, and tin. They express their gratitude to T. S. Stavitbismuth, antimony, and tin. They express their gratitude to T. S. Stavitbismuth, antimony, and tin. They express their gratitude to T. S. Stavitbismuth, antimony, and tin. They express their gratitude to T. S. Stavitbismuth, antimony, and tin. They express their gratitude to T. S. Stavitbismuth, antimony, and tin. They express their gratitude to T. S. Stavitbismuth, antimony, and tin. They express their gratitude to T. S. Stavitbismuth, antimony, and tin. They express their gratitude to T. S. Stavitbismuth, antimony, and tin. They express their gratitude to T. S. Stavitbismuth, antimony, and tin. They express their gratitude to T. S. Stavitbismuth, antimony, and tin. They express their gratitude to T. S. Stavitbismuth, antimony, and tin. They express their gratitude to T. S. Stavitbismuth, antimony, and tin. They express their gratitude to T. S. Stavitbismuth, antimony, and tin. They express their gratitude to T. S. Stavitbismuth, antimony, and tin. They express their gratitude to T. S. Stavitbismuth, antimony, and tin. They express their gratitude to T. S. Stavitbismuth, antimony, and tin. They express their gratitude to T. S. Stavitbismuth, antimony, and tin. They express their gratitude to T. S. Stavitbismuth, antimony, an

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Thermal Conductivity of Solid Solutions of Semiconductors

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These semiconductors possess cubic lattices, and their thermal conductivity does not depend on the crystallographic direction. The thermal conductivity of solid solutions of ZnTe-CdSe as dependent on the previous annealing is shown in Fig. 1. Data on the mechanism of heat conduction are discussed in detail. The longitudinal and transverse velocities of heat propagation (phonons) in the system ZnTe-CdTe and their mean velocity are listed in Table 1. The effects of low and high concentrations of impurities are investigated, and the conductivity of some solid solutions of tellurides and selenides as dependent on the impurity concentration is illustrated in Figs. 2-7. The various physical data obtained in the experiments are listed in Tables 2 and 3. Investigations of the solid solutions of Ba2TiO3-Ba0,58003, SrTiO3-Bi2/3TiO3 (obtained from G. A. Smolenskiy), and Sb2Te3-Sb2Se3 are illustrated in Fig. 10. The authors thank B. Ya. Moyzhes, and express their gratitude to P. V. Usachev, A. V. Golubkov, and N. S. Volosatova for preparing the series of solid solutions, to A. I. Zaslavskiy for the X-ray structural analysis to Yu. V. Ilisavskiy and A. G. Ostroumov for measuring the ultrasonic velocity, and to P. I. Mikhaylova for her assistance in measuring the thermal conductivity. There are 10 figures, 3 tables, and Card 2/3

Thermal Conductivity of Solid Solutions of Semiconductors

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7 references: 4 Soviet, 5 English, and 1 Italian.

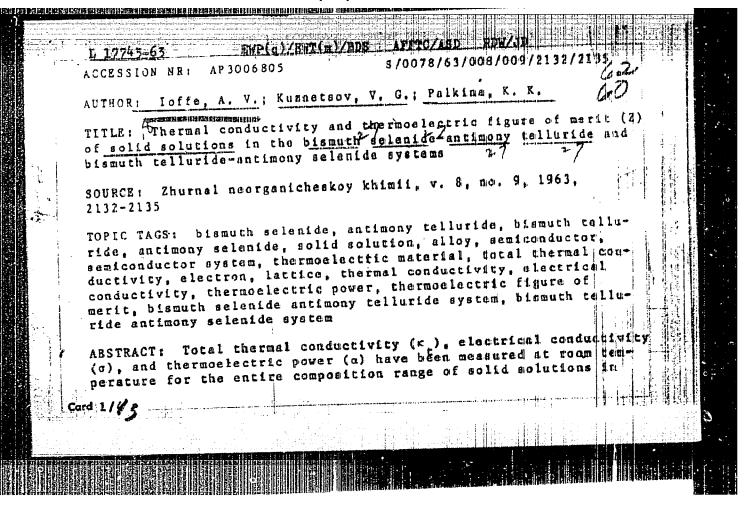
ASSOCIATION: Institut poluprovodníkov AN SSSR, Leningrad (Institute of Semiconductors AS USSR, Leningrad)

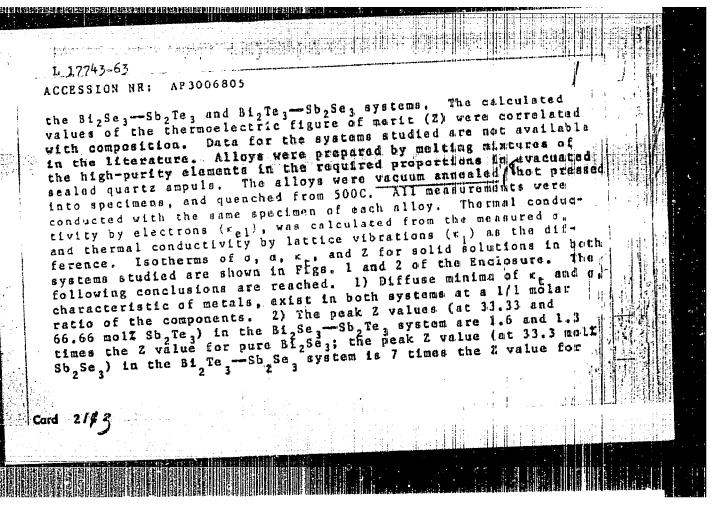
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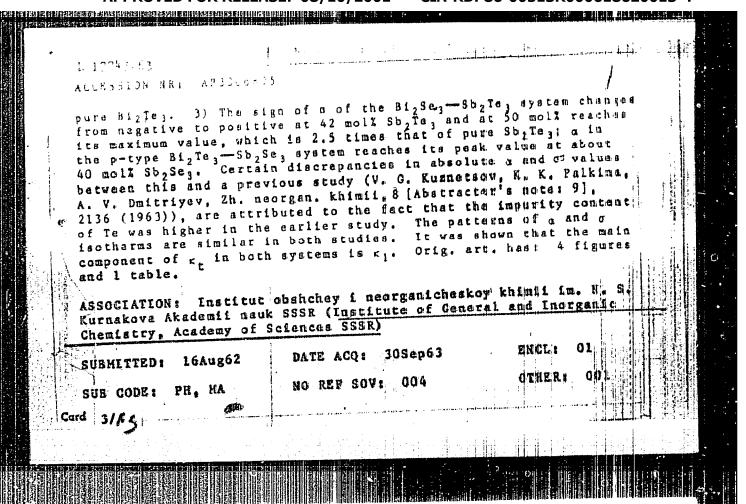
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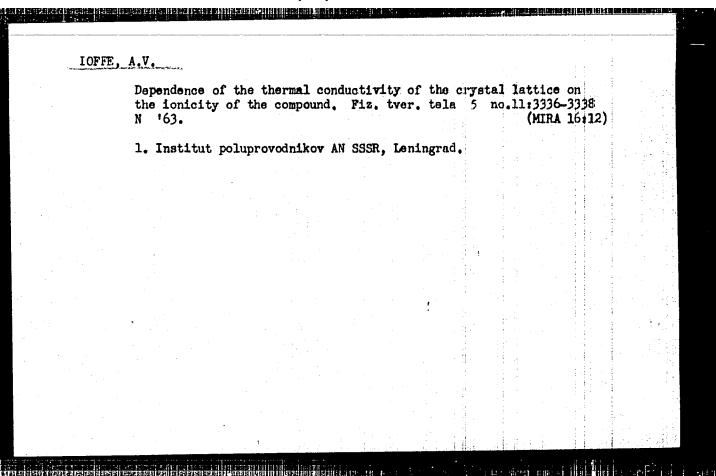
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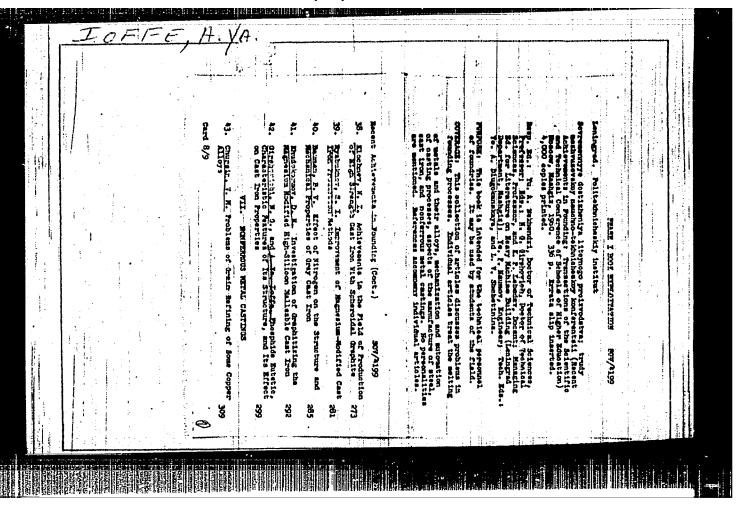
report submitted for Intl Conf on Physics of Semiconductors, Paris, 19-24 Jul 64.

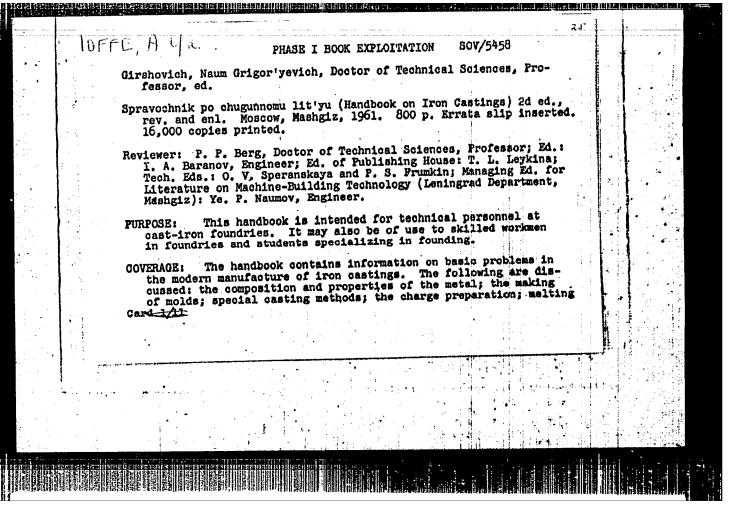


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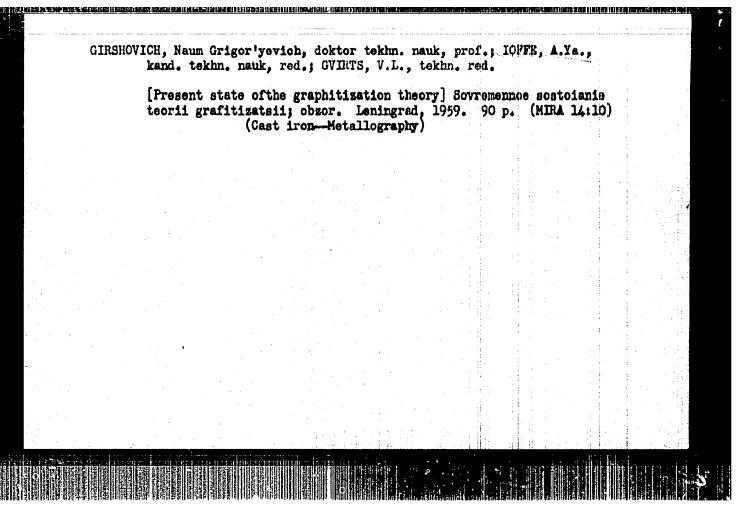


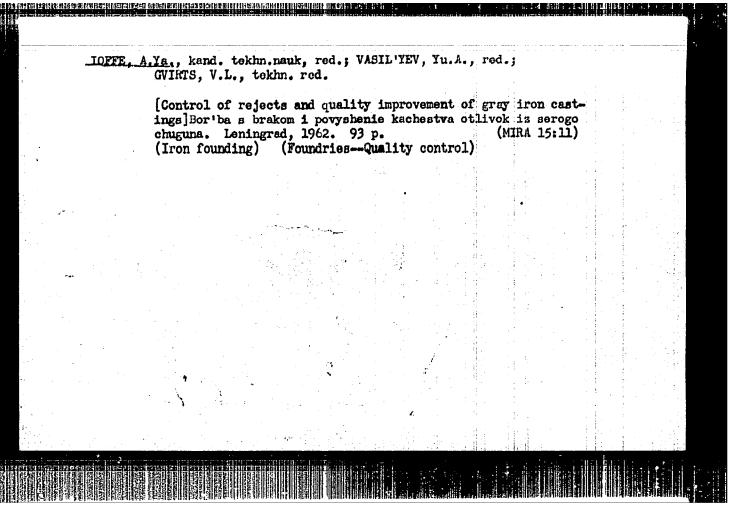
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	and modifying the cast iron; pouring, shaking out, and clean of castings; heat-treatment methods; and the inspection and jection of castings. Information on foundry equipment and of the mechanization of castings production is also presented. authors thank Professor P. P. Berg, Doctor of Technical Scient and staff members of the Mosstankolit Plant, headed by the of metallurgist G. I. Kletskin, Candidate of Technical Sciences their assistance. References follow each chapter. There are references, mostly Soviet.	re- on The onces, ohief	
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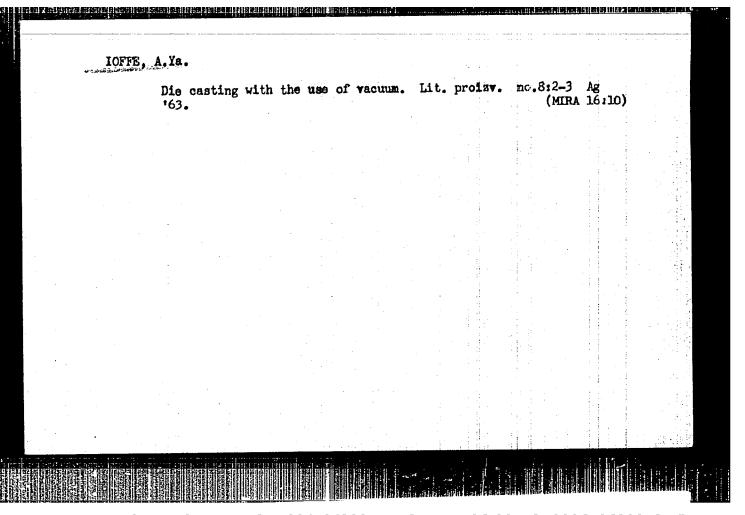


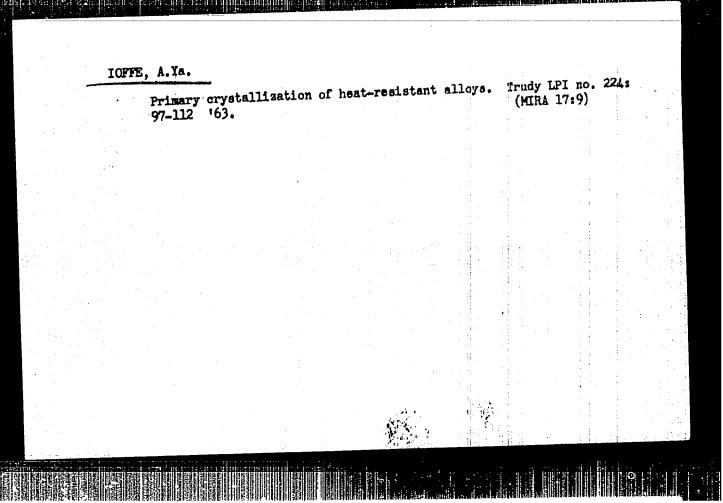
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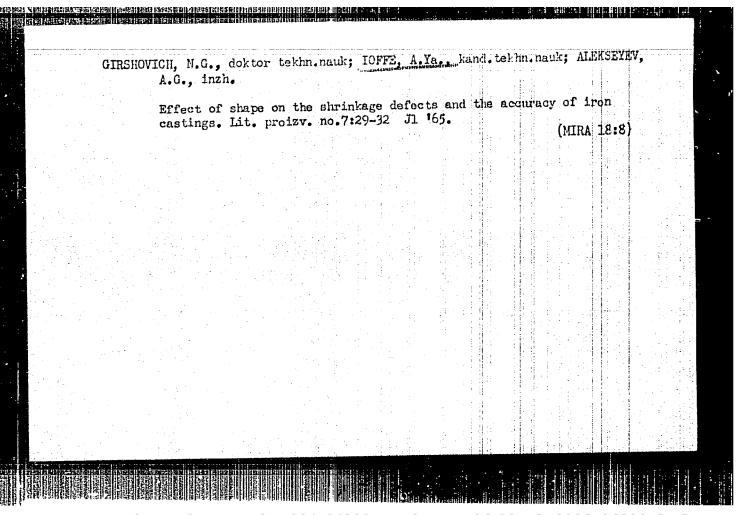
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graphite] Poluchenie i svoistva chuguna s sharovidnym
grafitom. Moskva, Mashgiz, 1962. 351 p. (MIRA 15:4)

(Cast iron—Metallography)







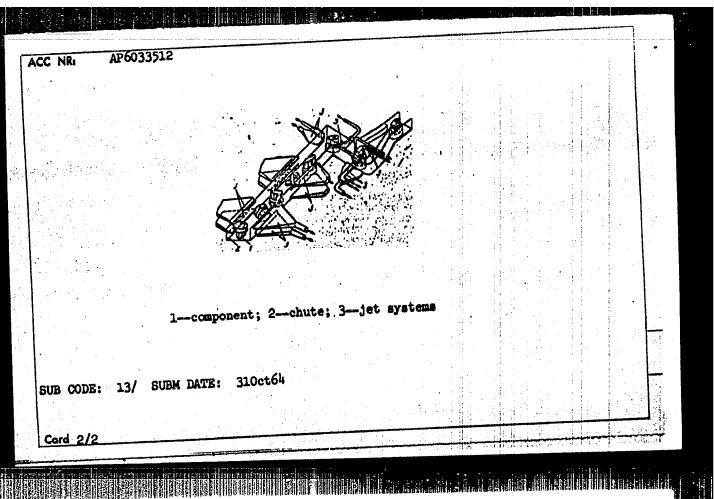
ACC NR: AP6033512 SOURCE CODE: UR/0413/66/000/018/0145/0145	· -
INVENTOR: Ioffe, B. A.	İ
ORG: None	
TITLE: A method for orientation of components. Class 49, No. 186253	
SOURCE: Izobret prom obraz tov zn, no. 18, 1966, 145	
TOPIC TAGS: automation equipment, material handling, pneumatic control	
ABSTRACT: This Author's Certificate introduces: 1. A method for orientation of components using compressed air. The components are put into an oriented position by the action of an air jet with a force dictated by the conditions for producing the necessary leverage. 2. A modification of this method in which the spatial position of the component may be changed several times by placing it in a chute and moving it with respect to jet systems distributed along this chute. One of these systems acts as a	e
clamp while the others provide the necessary leverage.	
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137-58-4-7152

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 120 (USSR)

AUTHOR: Ioffe, B. A.

TITLE: Mechanization and Automation of Forming Operations at the RE3

Works (Mekhanizatsiya i avtomatizatsiya shtampovochnykh rabot

na zavode RE3)

PERIODICAL: Tr. Konferentsii po avtomatiz. i mekhaniz. tekhnol. protses-

sov, Riga, 1957, pp 102-110

ABSTRACT: A description and characterization of the design and operation

of the AT-60 automatic press, the equipment and design of dies for that press, and of a semiautomatic bending machine are ad-

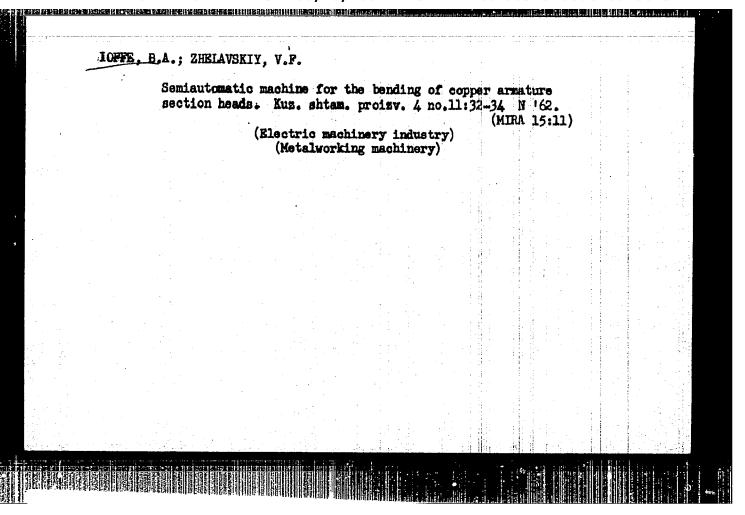
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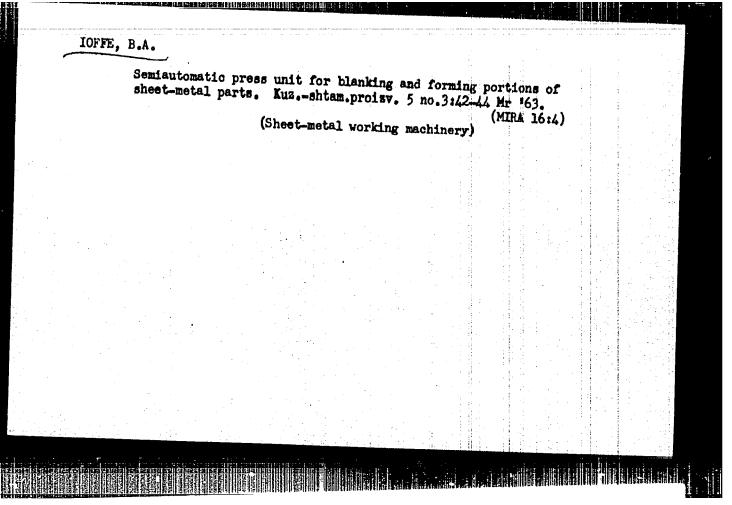
Ye. L.

1. Metal presses--Design 2. Metal presses--Operation

3. Brakes (Metal working) -- Equipment

Card 1/1

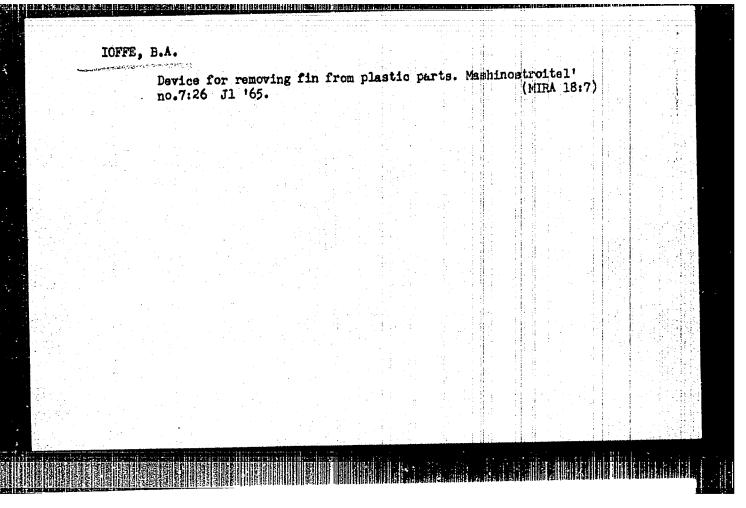


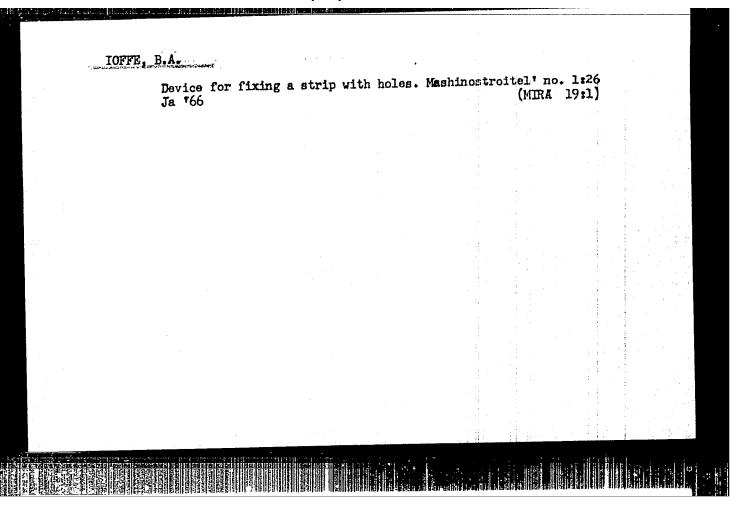


ZHELAVSKII, V.F., inzh.; GODE, R.B., insh.; IOFFE, B.A., insh.

Multiple electrode welding tip for the welding of parts
with a small spacing of spots. Svar. proizv. no.1:27-29
Ja *164.

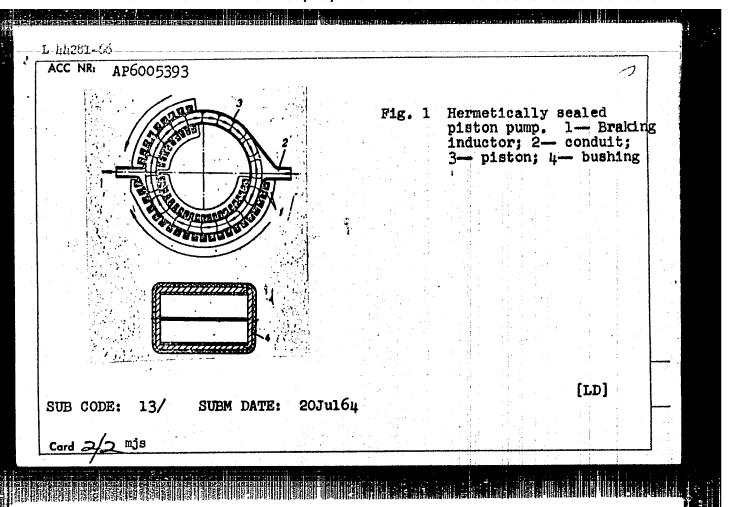
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SOURCE CODE: UR/0371/66/000/004/0087/0092

AUTHOR: Ioffe, B. A.; Saulite, U. A.

รักษาสาราชาวาร์สามารถสาราชาวาราชาวาราชาวาราชาวาราชาวาราชาวาราชาวาราชาวาราชาวาราชาวาราชาวาราชาวาราชาวาราชาวารา

ORG: Institute of Physics, AN LatSSR (Institut fiziki AN LatvSSR)

TITLE: Experimental investigation of an electromagnetic rotary displacement pump

SOURCE: AN LatSSR. Izvestiya. Seriya fizicheskikh i tekhnicheskikh nauk, no. 4,

1966, 87-92

TOPIC TAGS: fluid pump, electromagnetic pump, hydraulic pump

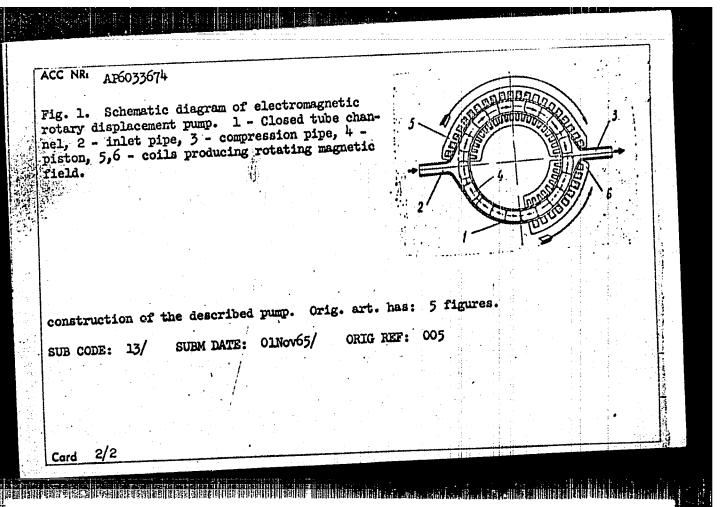
ABSTRACT: The authors describe the operating principles and the results of the first tests of a new type of electromagnetic induction pump, developed at the Institute of Physics of the Latvian Academy of Sciences, for the purpose of pumping conducting corrosive liquids. The pump uses no stuffing glands or bearing units, nor are valves required for the operation (Fig. 1). The construction of the test pump is described. Test results of pumping water and a solution of emulsifying oil of different viscosity are described. The described model was aimed only to check on the feasibility of the operating principle, without attempting to obtain optimal construction or high efficiency. The efficiency can be increased by improving the electromagnetic and hydraulic units. Ways of improving the design are briefly discussed. The authors thank Doctor of Physical and Mathematical Sciences I. M. Kirko and Candidate of Technical Sciences G. G. Branover for valuable advice and recommendations during the

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ACC NR: AP7000368

SOURCE: CODE: UR/0413/66/000/022/0154/0154

INVENTOR: Kirko, I. M.; Branover, G. G.; Ioffe, B. A.; Saulite, U. A.

ORG: none

TITLE: Plate-type hermetic pump. Class 59, No. 188847. [announced by the Institute of Physics, AN Latvian SSR (Institut fiziki AN Latviskoy SSR)7

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 22, 1966, 154

TOPIC TACS: pump, fluid pump, hydraulic pump

ABSTRACT: An Author Certificate has been issued for a plate-type hermetic pump consisting of a pipe-line inductor, plate holders, and plates. To simplify its design, the casing is made in the form of a closed annular duct. To assure its tight closing and for the automatic compensation of hydraulic-pressure wear on the operating plates' surfaces the plates' external axis of rotation is relative to the plate holder.

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Card 1/1

UDC: 621.66-213

IOFFE, B.D.; LEPIN, A.M., redaktor; SMIRNOV, P.S., tekhnicheskiy redaktor

[Engineering progress in machine tool memufacture] Ze tekhnicheskii progress v stankostroenii. [Leningrad] Lenizdat, 1957. 105 p.

(Machine-tool industry)

(Machine-tool industry)

IOFFE, B.D.

Ioffe, B.D. AUTHOR:

For Technical Progress in Machine Tool Building (Za TITLE:

tekhnicheskiy progress v stankostroyenii)

Lenizdat, Leningrad 1957, 106 pp. 5,000 copies PUB. DATA:

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None given ORIG. AG .:

Editor: Lepin, A.E.; Tech. Ed.: Smirnov, P.S. EDITOR:

This book is intended for skilled workers, designers, PURPOSE:

technologists and other engineering and technical person-

nel in machine-and instrument-building enterprises.

The book discusses the achievements and experience of the COVERAGE:

workers collective of the Leningrad Machine Tool Plant im. Ya. M. Sverdlov. The work of the collective was centered on the development of new machine tools of more

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For Technical Progress in Machine Tool Building (Cont.)

efficient design. For example, in the year 1956, the plant produced 22 different types of machine tools, with an average of 2374 parts for each type. A unification effort resulted in standardization of 84% of all sub-assemblies and components used. A report on the plant's experience in developing and introducing modern advanced technology is included. The examples of improved technological processes are described as useful for other metalworking enterprises. There are no references.

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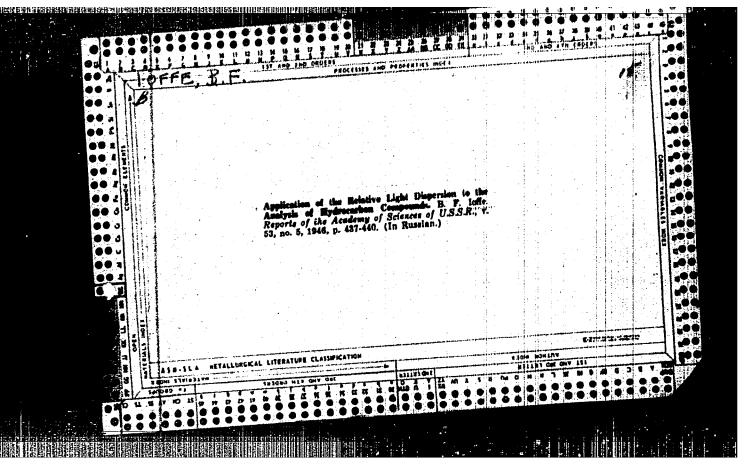
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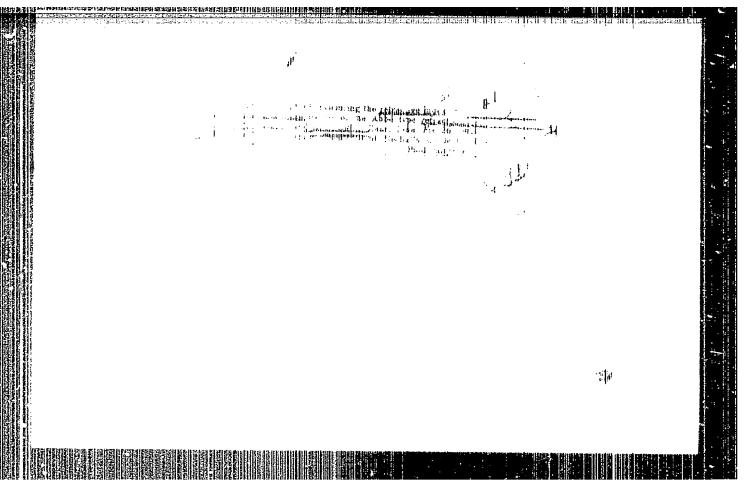
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IOFF, B.G. (Moskva)

Feeding the newborn. Fel'd, i akush. 21 no.2;48-52 F '56. (MIRA 9:5)

(INFANTS (NEWBORN)--NUTRITION)